

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 November 2001 (01.11.2001)

PCT

(10) International Publication Number
WO 01/80934 A1

(51) International Patent Classification⁷: **A61M 16/00**

(21) International Application Number: **PCT/US00/10968**

(22) International Filing Date: **20 April 2000 (20.04.2000)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(71) Applicants and

(72) Inventors: **VAN METER, Keith, W.** [US/US]; 17 Carriage Lane, New Orleans, LA 70114 (US). **KRIEDT, Frederick, A.** [US/US]; 560 Lynnmeade Road, Gretna, LA 70056 (US).

(74) Agent: **NEHRBASS, Seth, M.**; Garvey, Smith, Nehrbass & Doody, L.L.C., 3 Lakeway Center, Suite 3290, 3838 North Causeway Boulevard, Metairie, LA 70002 (US).

CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, DZ, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR (utility model), KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

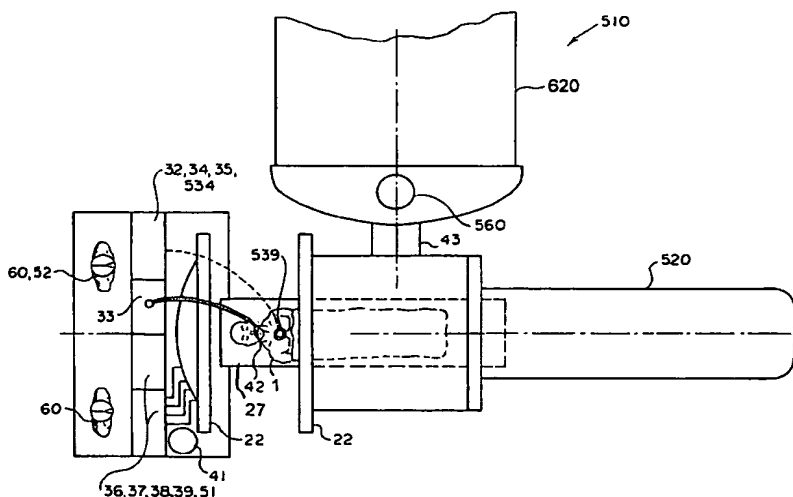
Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(81) Designated States (*national*): AE, AG, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH,

(54) Title: **HYPERBARIC RESUSCITATION SYSTEM AND METHOD**



(57) Abstract: A hyperbaric resuscitation system (10) includes a hyperbaric chamber (20) having a volume sufficient to enclose a human patient (1) and at least two operating personnel (60). The system (10) also includes a device for pressurizing the hyperbaric chamber (20) to at least 1.5 atmospheres with air. The concentration of oxygen in high pressure, oxygen-rich gas to be breathed by the patient (1) provided by an independent system (41) at chamber pressure is automatically regulated by a regulating system (33) which receives information about the amount of oxygen in cerebral tissue of the patient (1) from a spectrophotometer (51, 52). Although devices for measuring the exact amount of oxygen in cerebral tissue do not yet exist, the presently available devices can show trends in the amount of oxygen in the tissue. Since the physician working on a patient in a hyperbaric resuscitation system is more concerned about trending than exact values, the present system can still be of great benefit in resuscitating patients.

WO 01/80934 A1